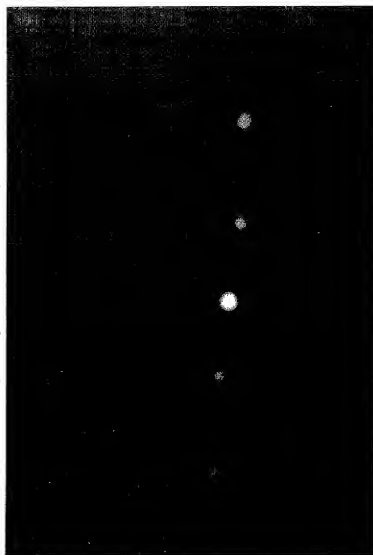


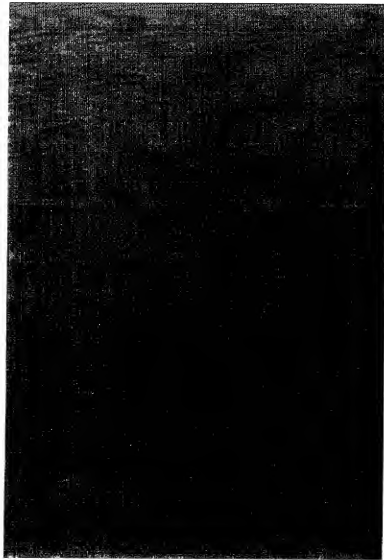
CYCLE  
ADDED: 1 2 3 4 5 6 Black = Unlabeled Nucleotide  
A C G T A C Red = Fluorescent Nucleotide



Sample 1:	3'	P'	A	G	C	T	G	T	...5'
	5'	P	T	C					
Sample 2:	3'	P'	G	T	C	T	A	T	...5'
	5'	P	C	A					

FIG. 1

CYCLE  
ADDED: 1 2 3 4 5 6 7 8  
A C G T A C G T



Sample 1:

3'	P'	A	G	C	T	G	T	...	5'
5'	P	T	C	G					

Sample 2:

3'	P'	G	T	C	T	A	T	...	5'
5'	P	C	A	G					

FIG. 2

CYCLE  
ADDED:

1	2	3	4	5	6	7	8	9	10
A	C	G	T	A	C	G	T	A	C



1

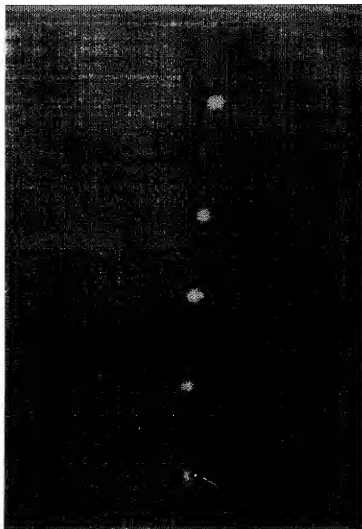
2

Sample 1:	3'	P'	A	G	C	T	G	T	...5'
	5'	P	T	C	G	A	C		
Sample 2:	3'	P'	G	T	C	T	A	T	...5'
	5'	P	C	A	G	A			

FIG. 3

CYCLE  
ADDED:

1 2 3 4 5 6 7 8 9 10 11 12  
A C G T A C G T A C G T



1

2

Sample 1:

3'	<div>p'</div>	A	G	C	T	G	T	...5'
5'	<div>p</div>	T	C	G	A	C		

Sample 2:

3'	<div>p'</div>	G	T	C	T	A	T	...5'
5'	<div>p</div>	C	A	G	A	T		

FIG. 4

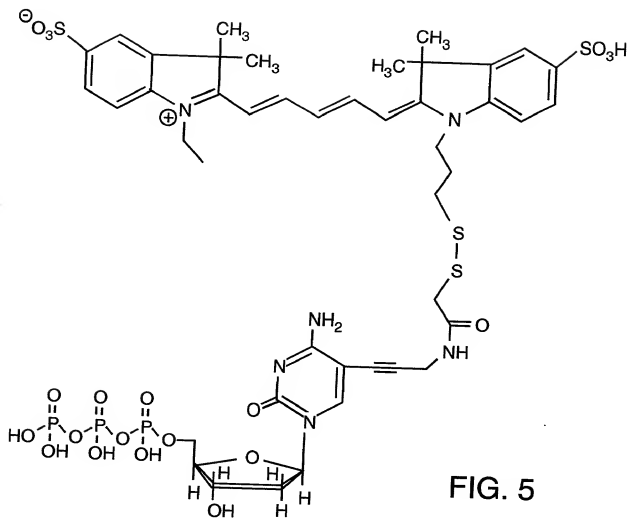
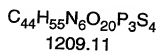


FIG. 5



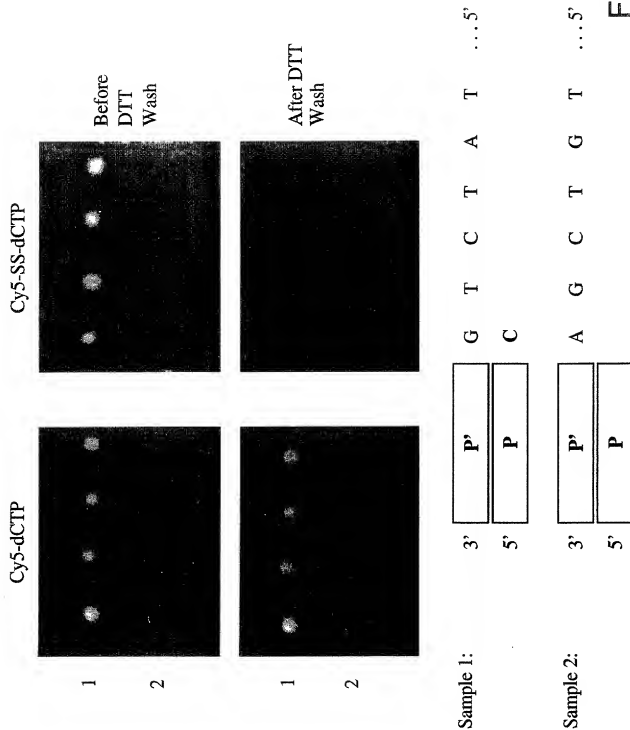


FIG. 6

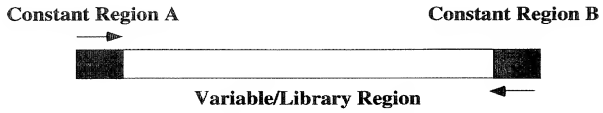


FIG. 7

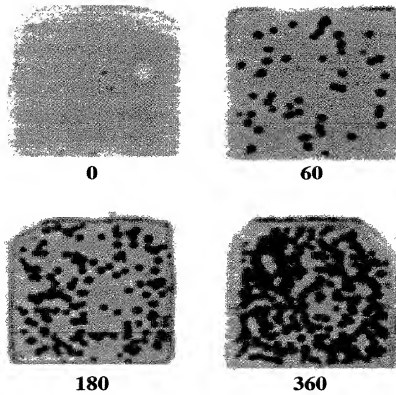


FIG. 8A

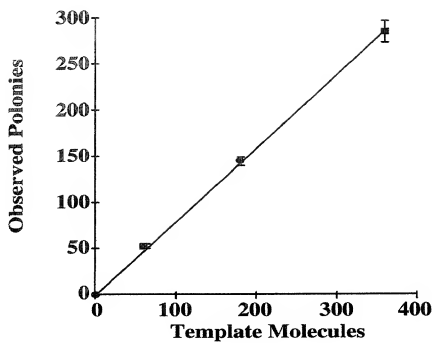


FIG. 8B

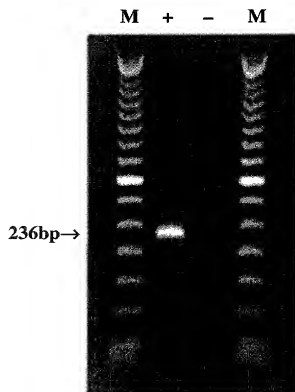


FIG. 8C



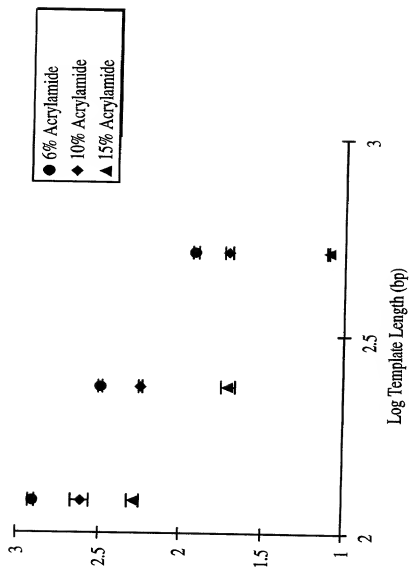


FIG. 9A

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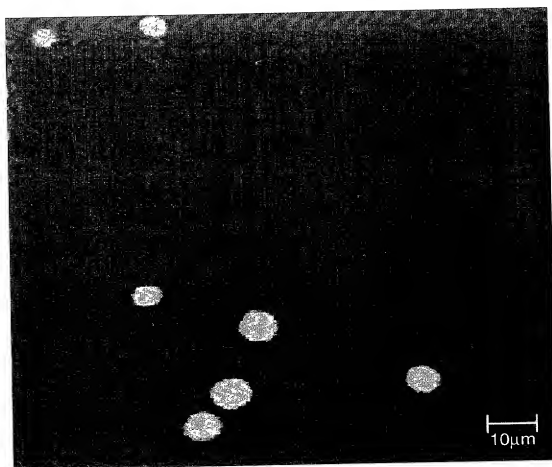


FIG. 9B

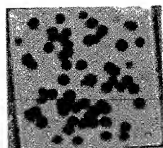


FIG. 10A

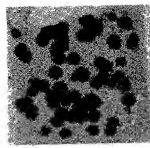


FIG. 10B